

PS-LX7

*US Model
Canadian Model
AEP Model
E Model*



STEREO TURNTABLE SYSTEM

SPECIFICATIONS

Turntable

Platter 29.5 cm (11 $\frac{1}{8}$ in.), aluminum-alloy diecast
Motor Linear torque BSL (brushless and slotless) motor

Drive system Direct drive

Control system Quartz lock control, magnedisc servo control system

Speed 33 $\frac{1}{3}$ rpm, 45 rpm

Starting characteristics Comes to nominal speed within a $\frac{1}{2}$ revolution (33 $\frac{1}{3}$ rpm)

Wow and flutter 0.02% (WRMS)*, 0.025% (WRMS) $\pm 0.04\%$ (DIN)

Signal-to-noise ratio 75 dB (DIN-B)

Load characteristics 0% up to 150 g tracking-force (at lead-in groove of a record)

Speed deviation Within $\pm 0.003\%$

Automatic system Lead-in, return, reject, repeat, record size selection, up/down

Tonearm

Type Statically balanced

Pivot-to-stylus length 200 mm (7 $\frac{7}{8}$ in.)

Overhang 18.5 mm ($\frac{3}{4}$ in.)

Tracking force adjustment range 0 - 2.5 g

Cartridge weight range (including a cartridge shell) Less than 11.5 g

Cartridge XL-200


Type Moving magnet type

Frequency response 10 Hz to 30 kHz


Channel separation 25 dB at 1 kHz
Output voltage 3 mV at 1 kHz, 5 cm/sec.
Load impedance 50 to 100 kilohms
Tracking force 1.3 to 2 g (1.5 g recommended)
Stylus Sony ND-200G (conical 0.6 mil diamond)
Weight 8.2 g

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES ÉCLATÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

* This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pickup head.



SONY®

SERVICE MANUAL

7135

General

Power requirements

AEP model: 220 V ac
 US, Canadian model: 120 V ac
 E model: 110 – 120 or 220 – 240 V ac adjustable

50/60 Hz

Power consumption 10W

Dimensions

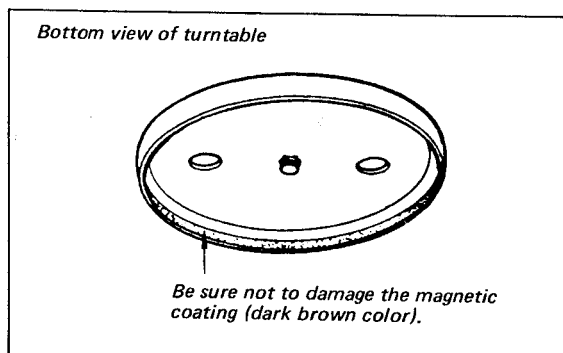
Approx. 355 × 82 × 330 mm (w/h/d)
 (14 × 3¹/₄ × 13 in.)

including projecting parts and controls

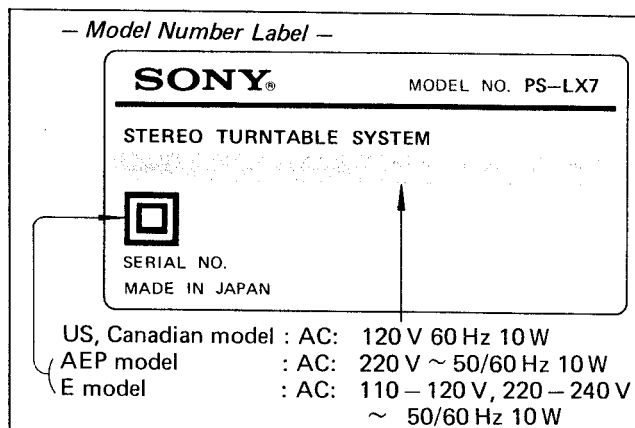
Weight

Approx. 5.5 kg (12 lbs 2 oz), net
 Approx. 6.8 kg (15 lbs), in shipping carton

• NOTE ON REPAIR

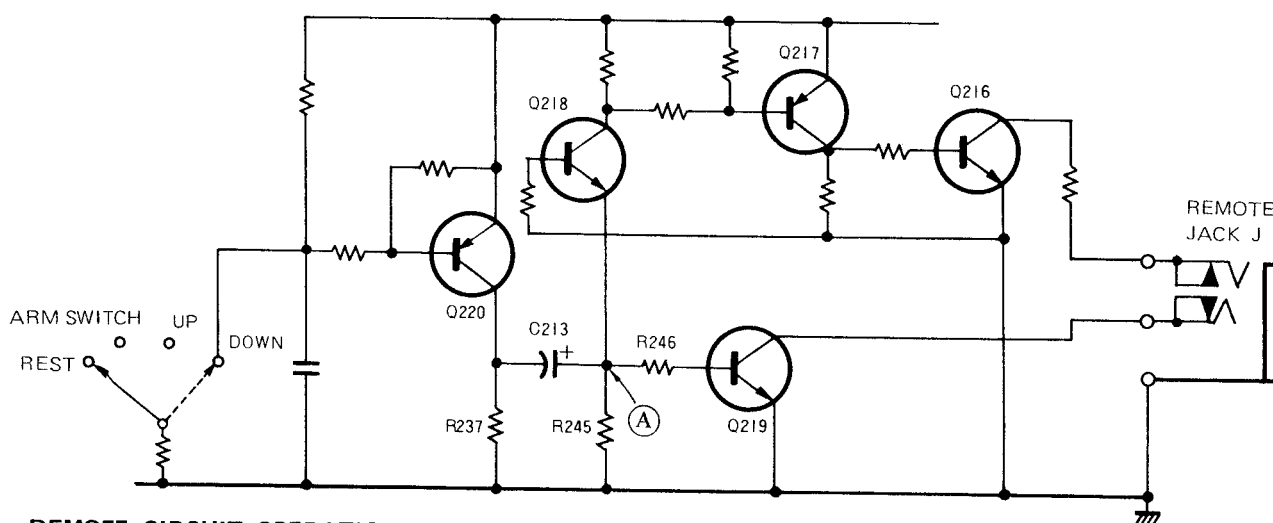


• MODEL IDENTIFICATION



SECTION 1 OUTLINE

1-1. REMOTE CONTROL CIRCUIT DESCRIPTION



REMOTE CIRCUIT OPERATION

This set outputs a signal for automatic ON or OFF when recording with a tape deck. First, the tape deck should be in REC/PAUSE mode. When the start switch on the player is pressed, the arm switch starts to move.

When the arm switch reaches DOWN position, Q220 turns on.

Therefore, charging starts through C213, R246. Then Q219 is turned on by this charging current. The PAUSE mode of the tape deck is released and recording mode is set, because Q219's collector is grounded when it turns on. After C213 is charged, no current flows to the base of Q219 and it turns off.

When disk play is completed and the tonearm

comes to RETURN position, Q220 turns off because the arm switch goes UP.

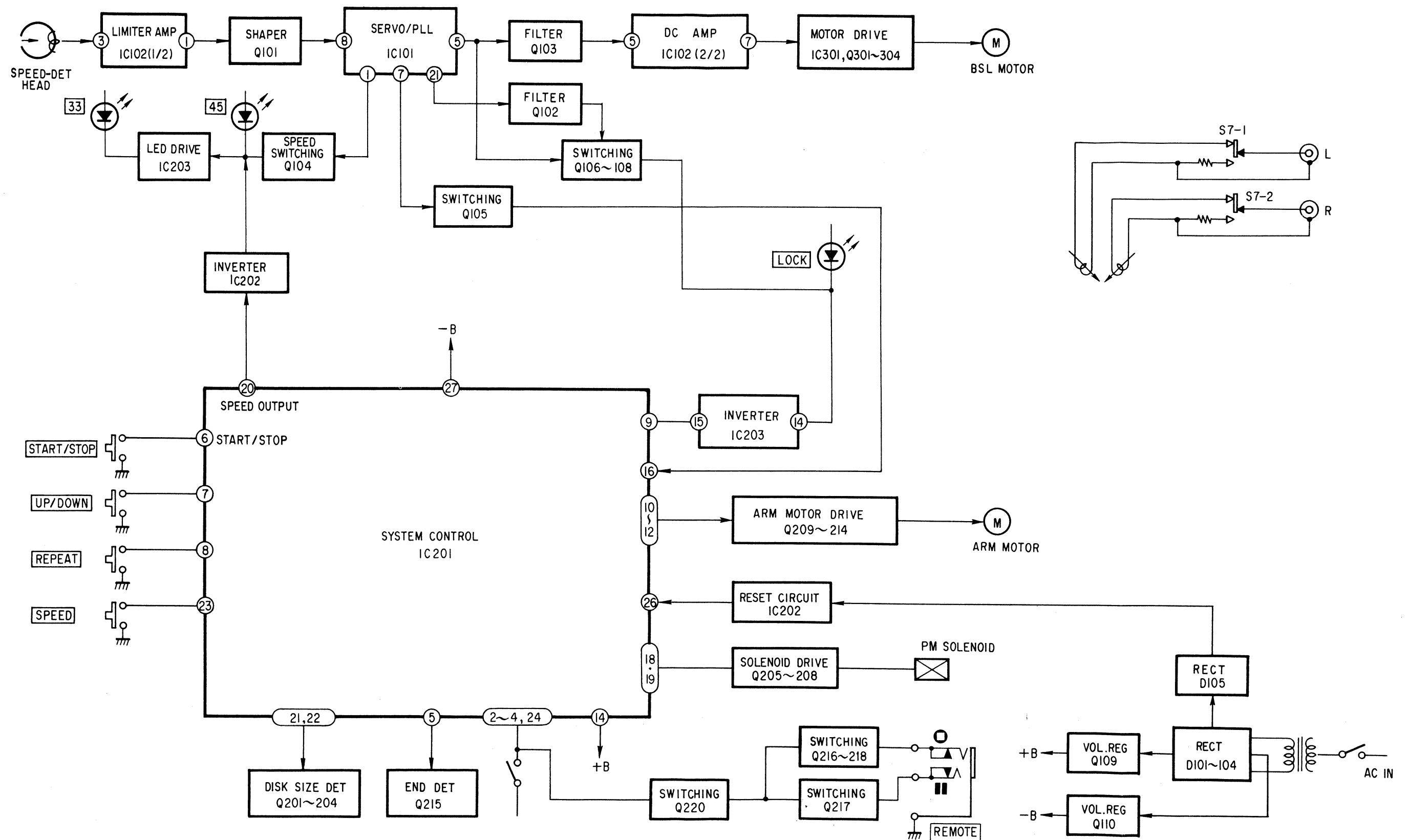
When Q220 turns off, the voltage charged in C213 begins to discharge in the complete circuit of R237, R245, C213. This causes potential at (A) to drop. When the potential at the emitter of Q218 drops more than 0.6V, Q218 goes on.

Also, Q217, Q216 turn on. As the collector of Q216 is grounded when it turns on, the tape deck is set to PAUSE mode after REC MUTE goes on.

After C213 is discharged, Q218, 217, 216 turn off.

When starting the player again, the above is repeated.

1-2. BLOCK DIAGRAM

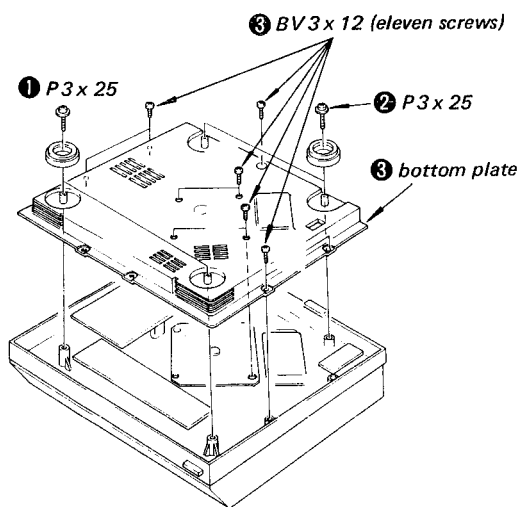


SECTION 2 DISASSEMBLY

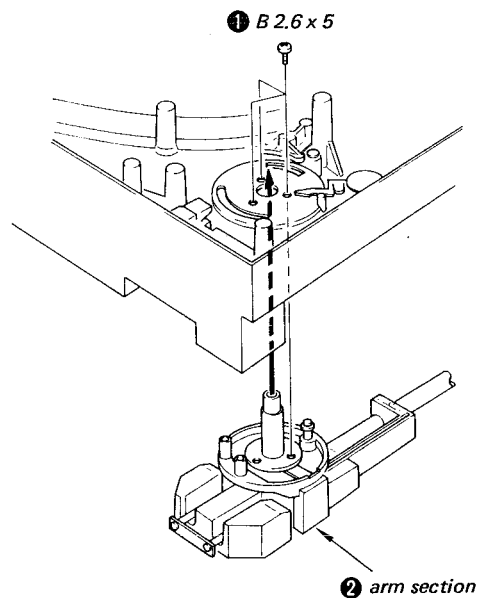
2-1. REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

BOTTOM PLATE

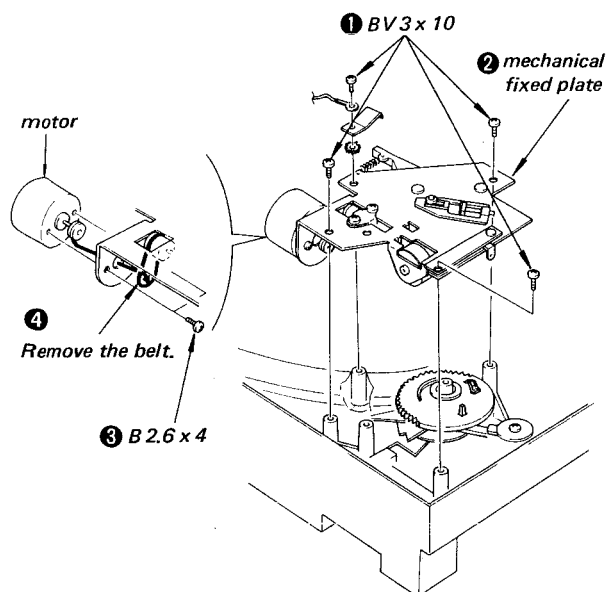


ARM



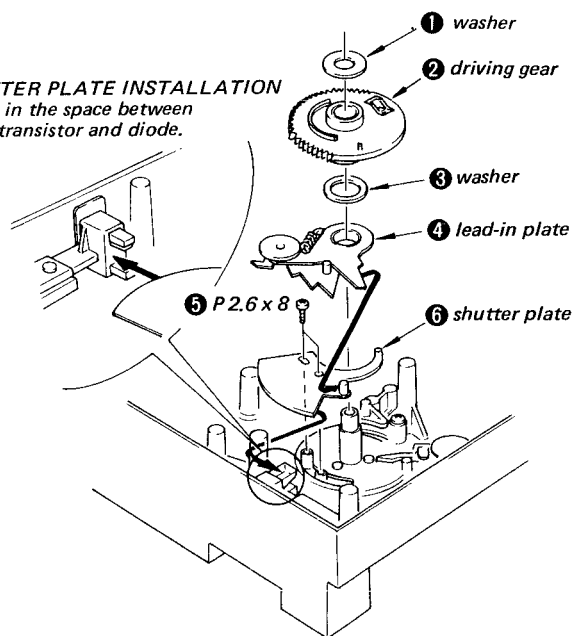
Remove the arm lead wires.

MOTOR



DRIVING GEAR

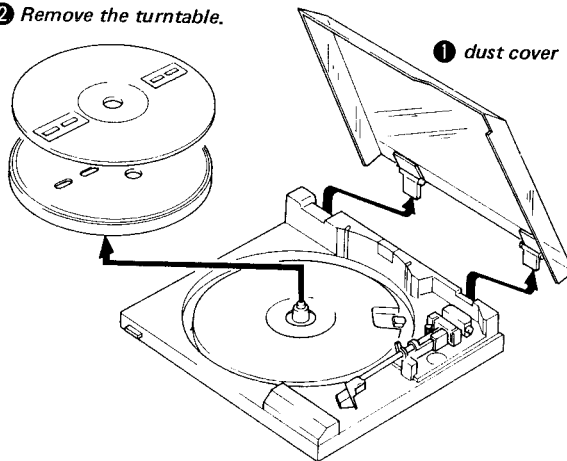
SHUTTER PLATE INSTALLATION
Install in the space between phototransistor and diode.



DUST COVER/TURNTABLE

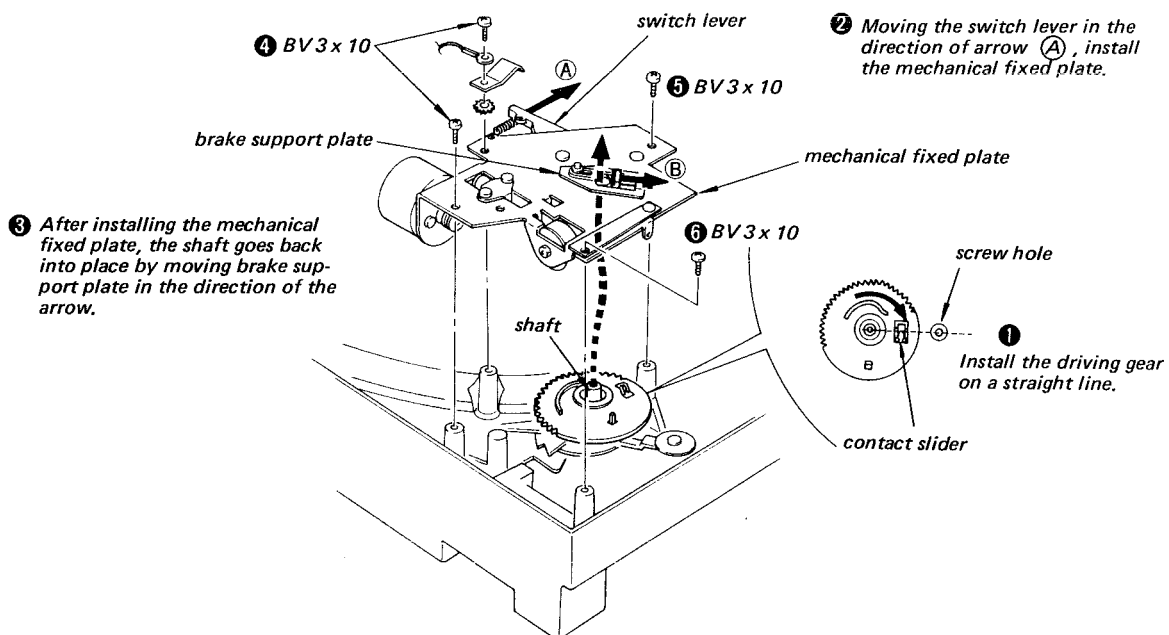
② Remove the turntable.

① dust cover



Head Replacement.

MECHANICAL FIXED PLATE INSTALLATION



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

Drop Point Adjustment

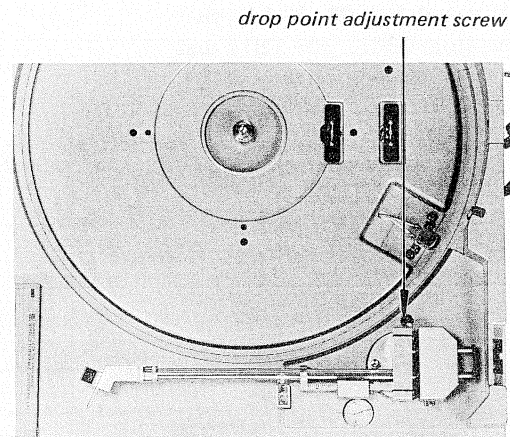
1. Remove the rubber cap.
2. Apply proper stylus force and perform IFC scale setting: (XL-200: stylus force 1.5 g/IFC scale: 1.5)
3. Put test record (YFSC-16) on the turntable and press the START/STOP button.
4. Confirm that the stylus drops on the specified point of the test record.
If necessary, adjust the drop point with the adjustment screw.

Turn screw	Count
clockwise	increases (inward)
counterclockwise	decreases (outward)

SPECIFICATION

Record	Count
30 cm (12")	7-15
17 cm (7")	14-31

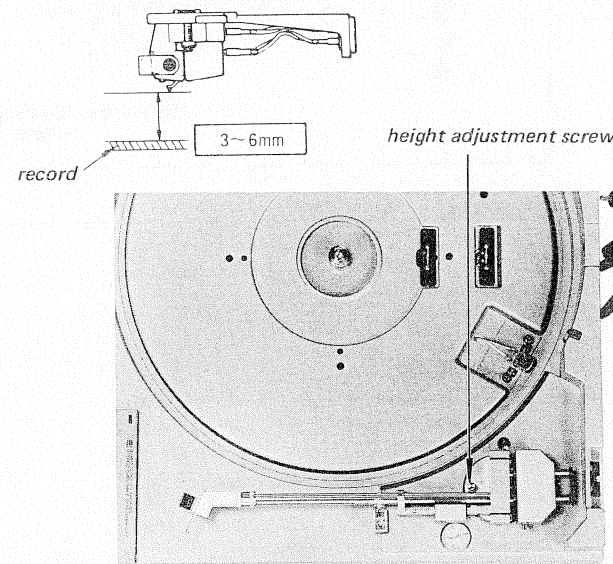
5. Change the test record to YFSB-6.
6. Repeat steps 3 and 4.



Stylus Height Adjustment

1. Adjust so that tonearm is balanced.
2. Set the stylus force weight the recommended value the cartridge. (XL-200: 1.5 g)
3. Press the START/STOP button to start moving the tonearm. Before it descends onto the record, turn off the power.
4. Confirm that the clearance between the stylus tip and the record is as specified. If necessary, adjust with the adjustment screw.

Turn screw	Height
clockwise	raise
counterclockwise	lower

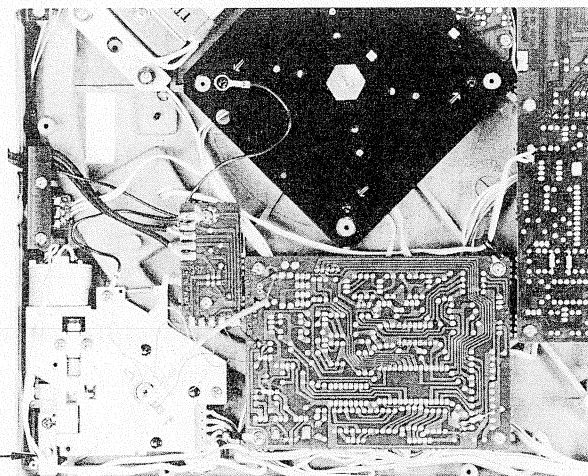


Automatic Return Adjustment

1. Put test record (YFSC-16) on the turntable; set speed at 33 rpm.
2. Adjust the screw so that tonearm auto operation indicator starts to blink at count 10-13.

Turn screw	Return screw
clockwise	faster
counterclockwise	slower

return adjustment screw



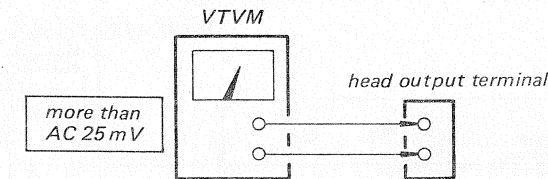
PS-LX7 PS-LX7

3-2. ELECTRICAL ADJUSTMENTS

Rotation Speed Detection Head Output Adjustment

Turn power on and set speed at 33 rpm.

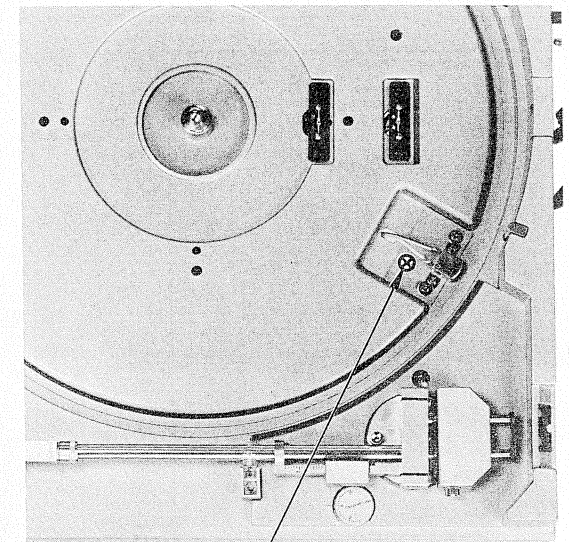
1. Rotate the turntable, loosen the set screw (TA, B3 x 10) and move the head forward and back to adjust so that the voltage of head output terminal is more than AC 25 mV.



2. After adjusting, rotate the turntable slowly by hand and confirm that the magnetic surfaces on the head and turntable do not touch.

Note: There should be more than 0.3 mm between them. Improper adjustment will result in wow and flutter.

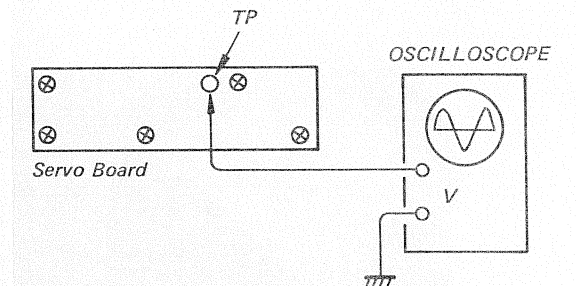
TURNTABLE REMOVED



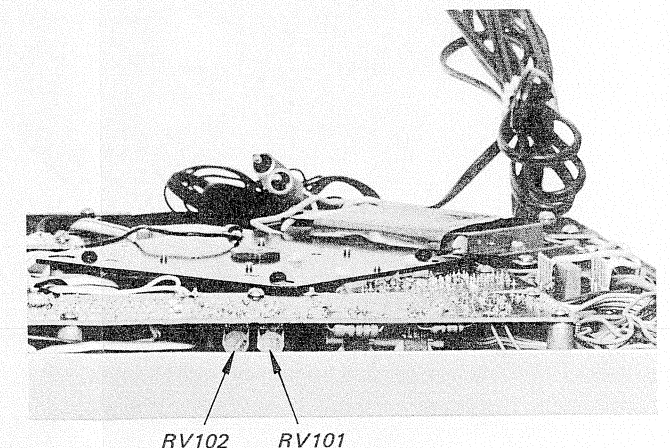
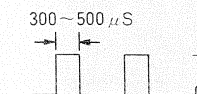
Rotation Speed Adjustment

Proceed in the following order.

1. Set speed at 45 rpm.
2. Observe the waveform on the oscilloscope. The waveforms should appear on the + side. Specification: 15 – 30 μ s
3. Adjust RV102 if not within the specification.
4. Set speed at 33 rpm.
5. Observe the waveform on the oscilloscope. The waveform should appear on the + side. Specification: 300 – 500 μ s
6. If necessary, adjust the RV101.



WAVEFORM



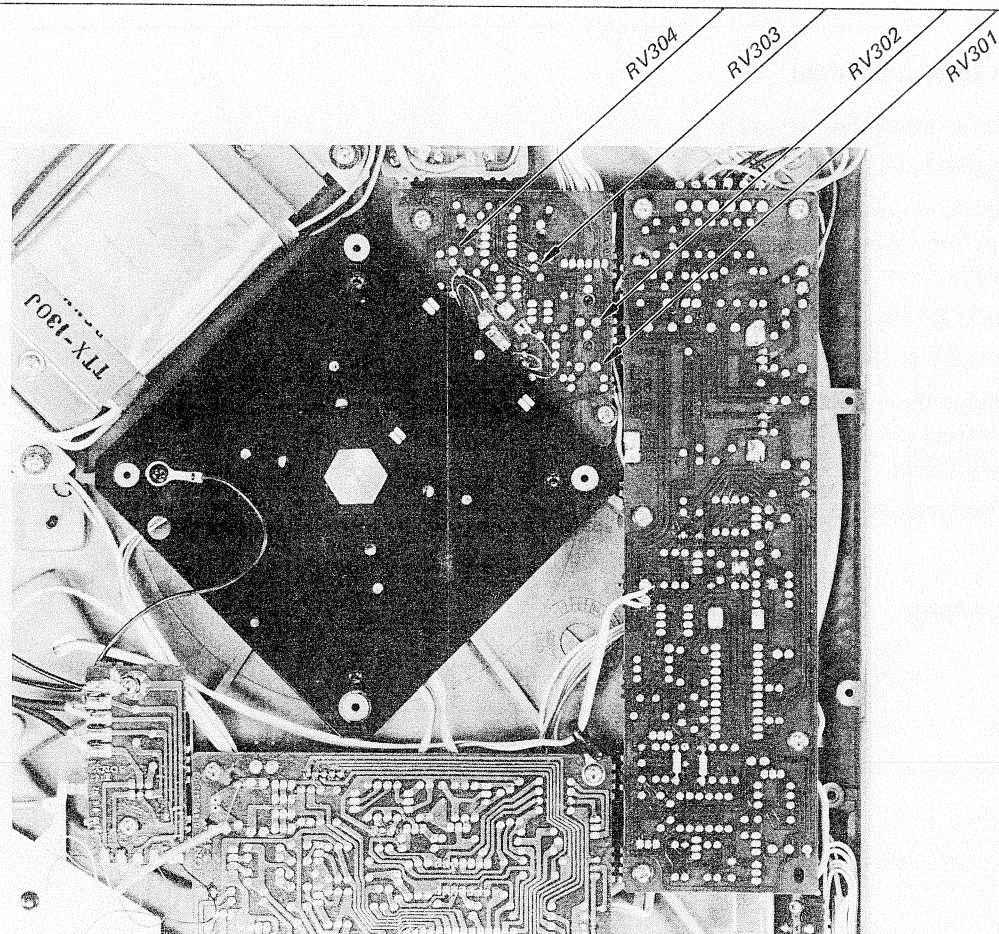
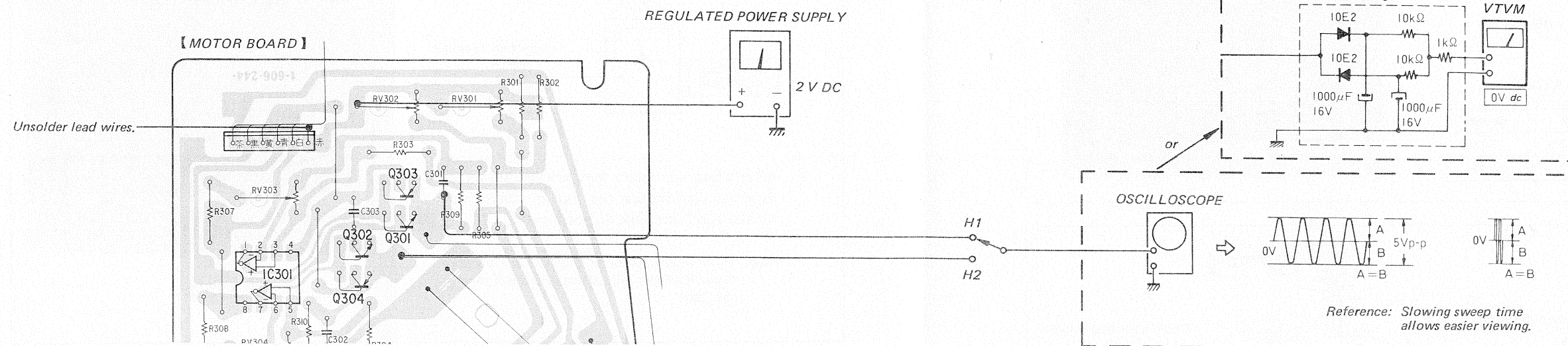
Hall Device Gain/Motor Amp Adjustment

Remove the turntable and turn the power switch on.

- Remove the lead wires shown below (white/orange) and apply DC 2 V.

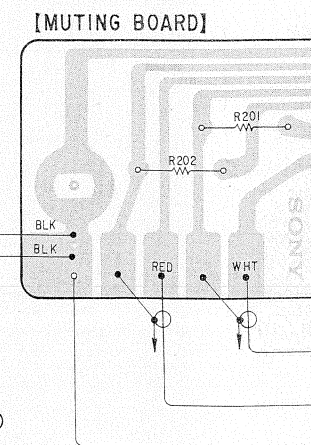
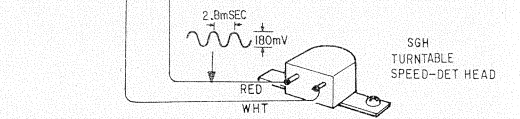
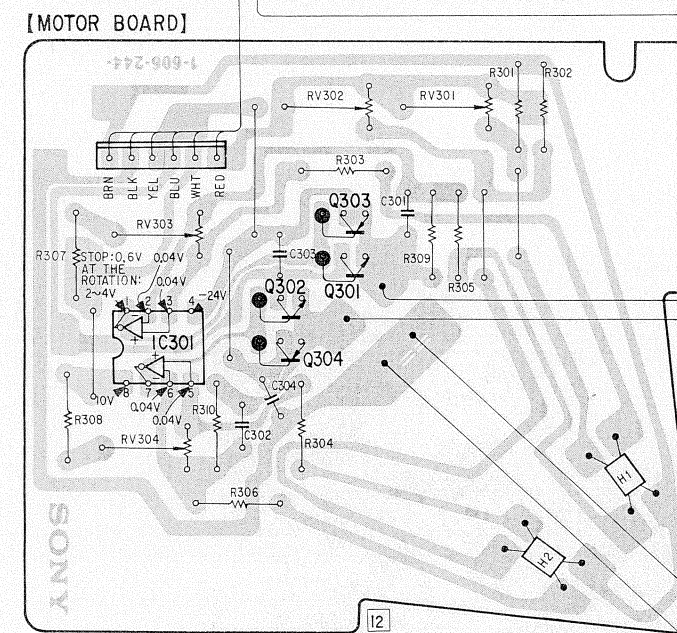
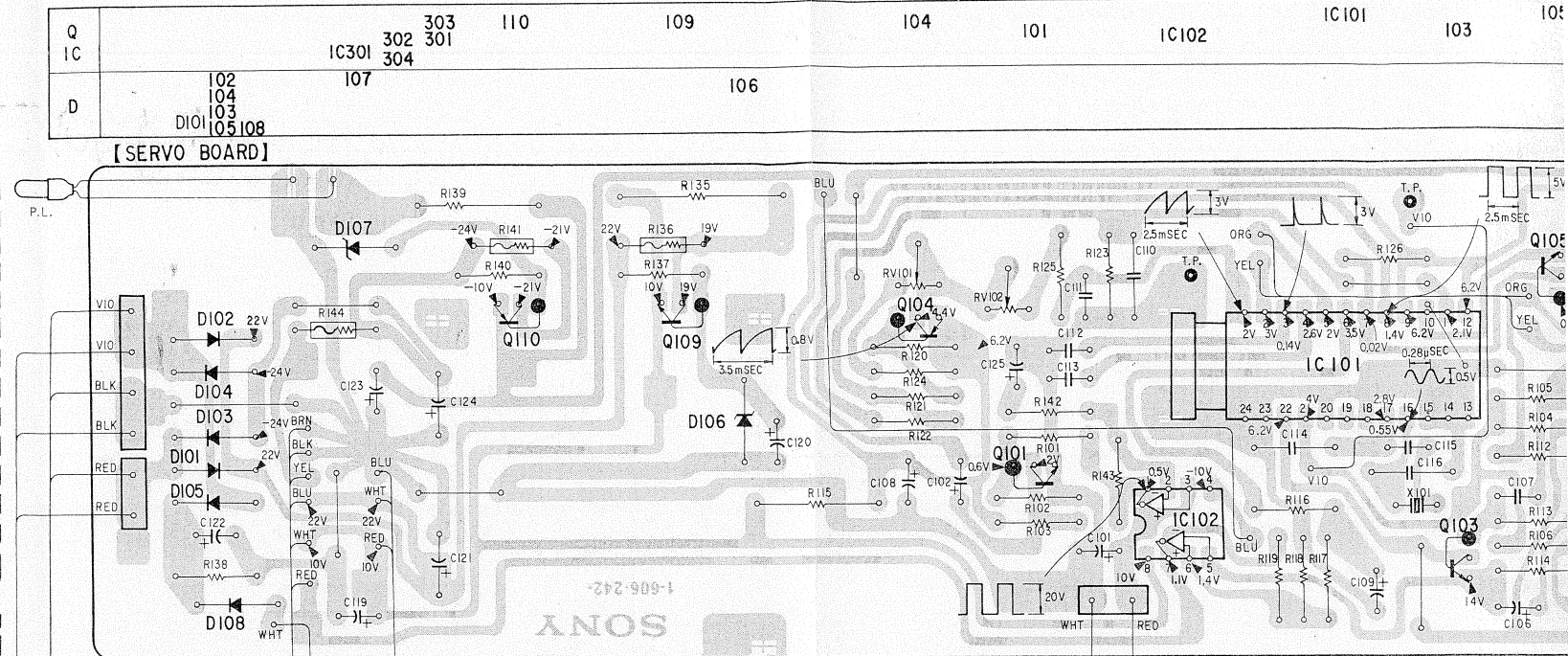
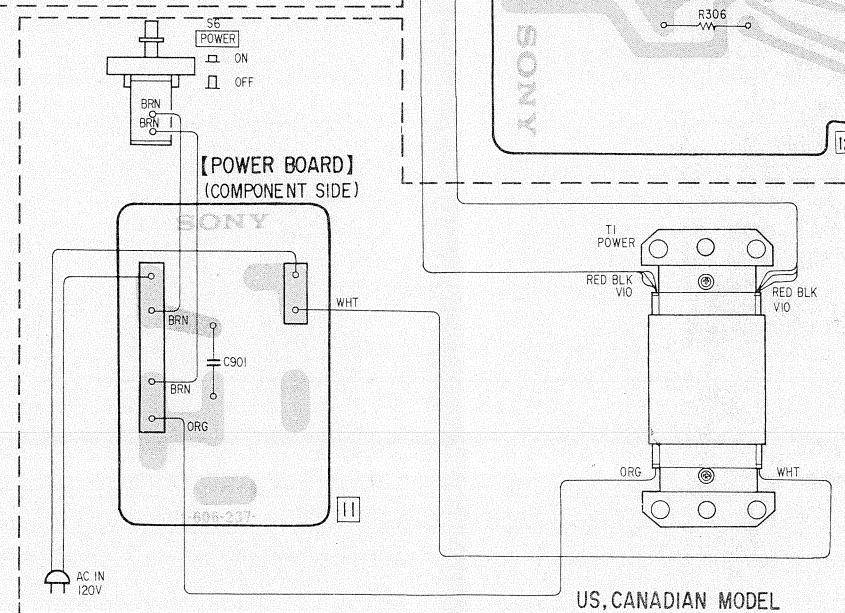
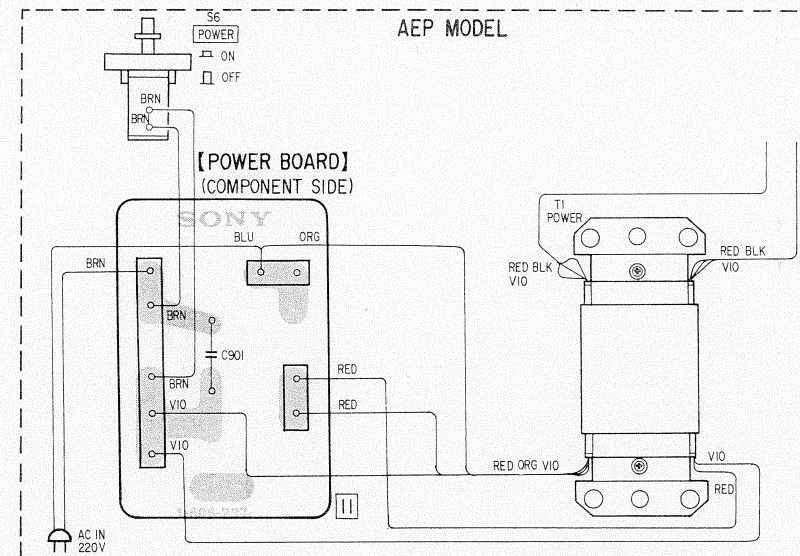
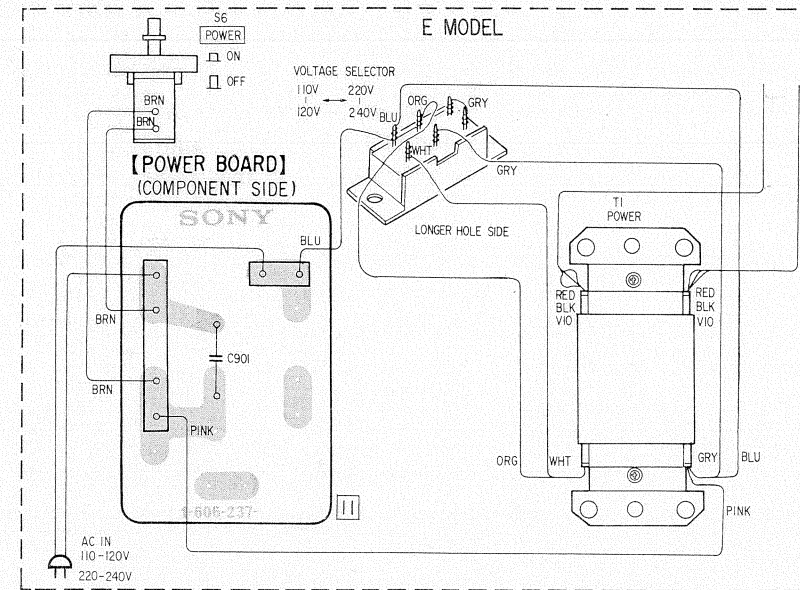
- Gain Adjustment:
Adjust RV301 (H1) and RV302 (H2) so that the voltage at the emitters of Q301, 303 (H1) and Q302, 304 (H2) are as specified.
Specification: 5 Vp-p

- Offset Adjustment:
Adjust RV304 (H2) and RV303 (H1) so that emitter waveforms for Q301, 303 (H1) and Q302, 304 (H2) are as shown, or so that DC potential is 0 V.



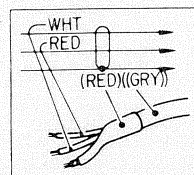
4-1. MOUNTING DIAGRAM

— Conductor Side —



Note:

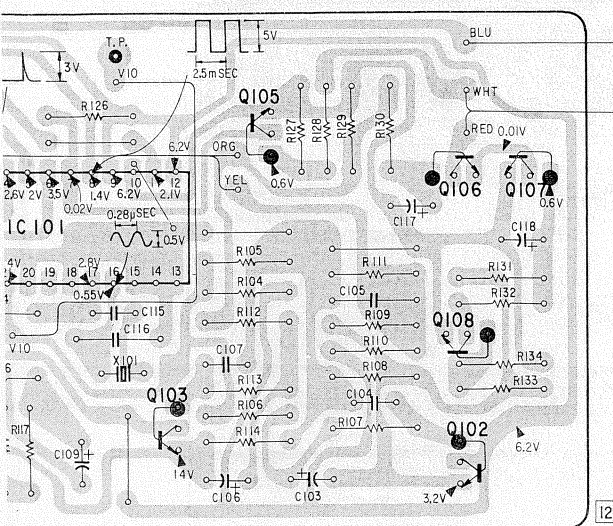
- Color code of sleeving over the end of the jacket.



- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- : part mounted on the conductor side.
- [] → : indicates side identified with part number.
- : B + pattern
- : B - pattern

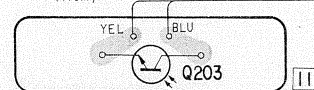
H I J K L M N O P

IC101 103 105 106 107 220 218 IC202 214 IC201 209 210
203 108 202 204 212 211
201 102 205 206 207 208 213 D207 205 210 204 201 202 206

SGH
TURNABLE
SPEED-DET HEAD

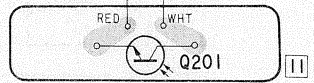
[SIZE DET BOARD(A)]

(17cm)

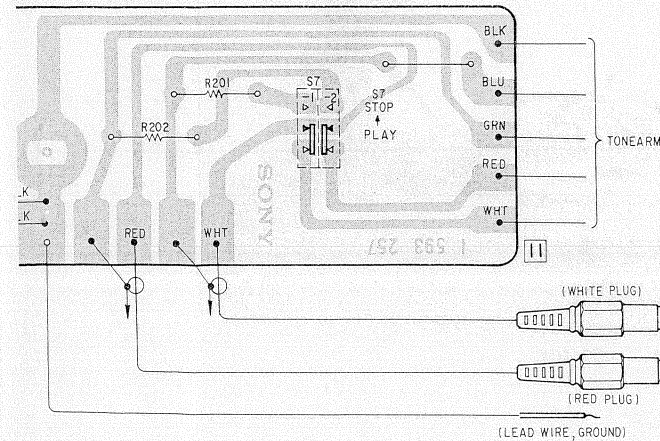


[SIZE DET BOARD(B)]

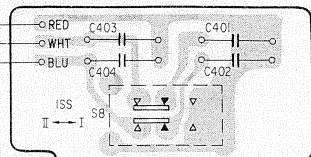
(30cm)



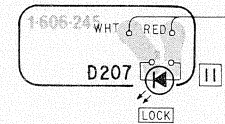
[MUTING BOARD]



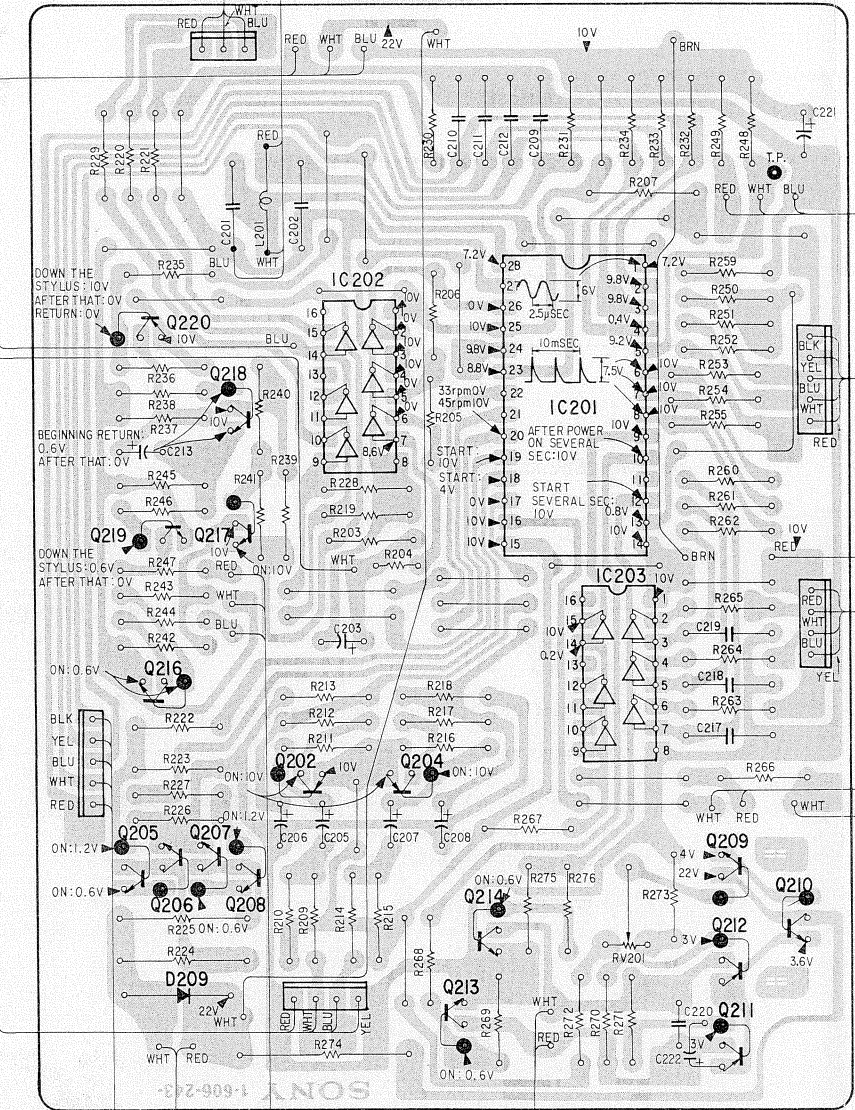
[ISS BOARD]



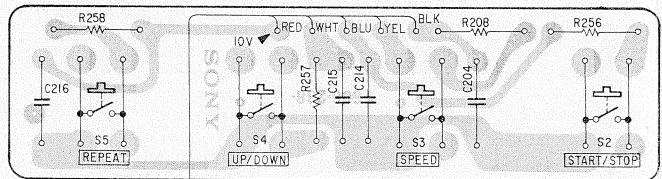
[LOCK INDICATOR BOARD]



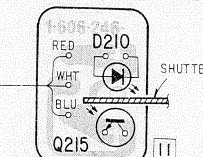
[SYSCON BOARD]



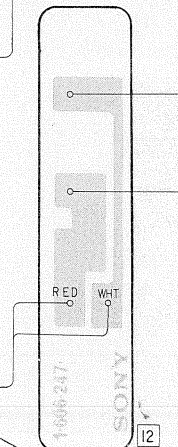
[SWITCH BOARD]



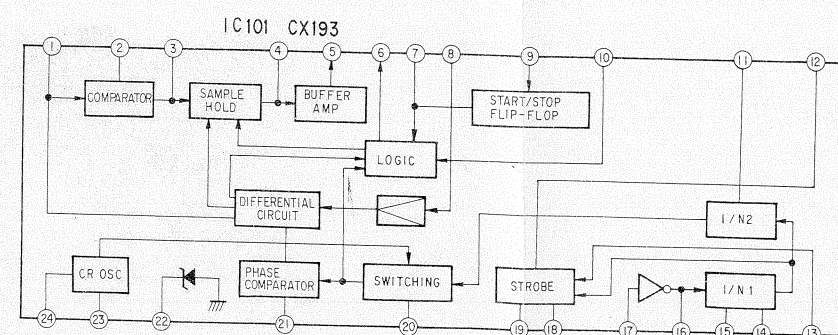
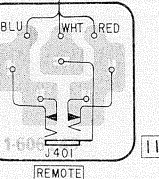
[END DET BOARD]



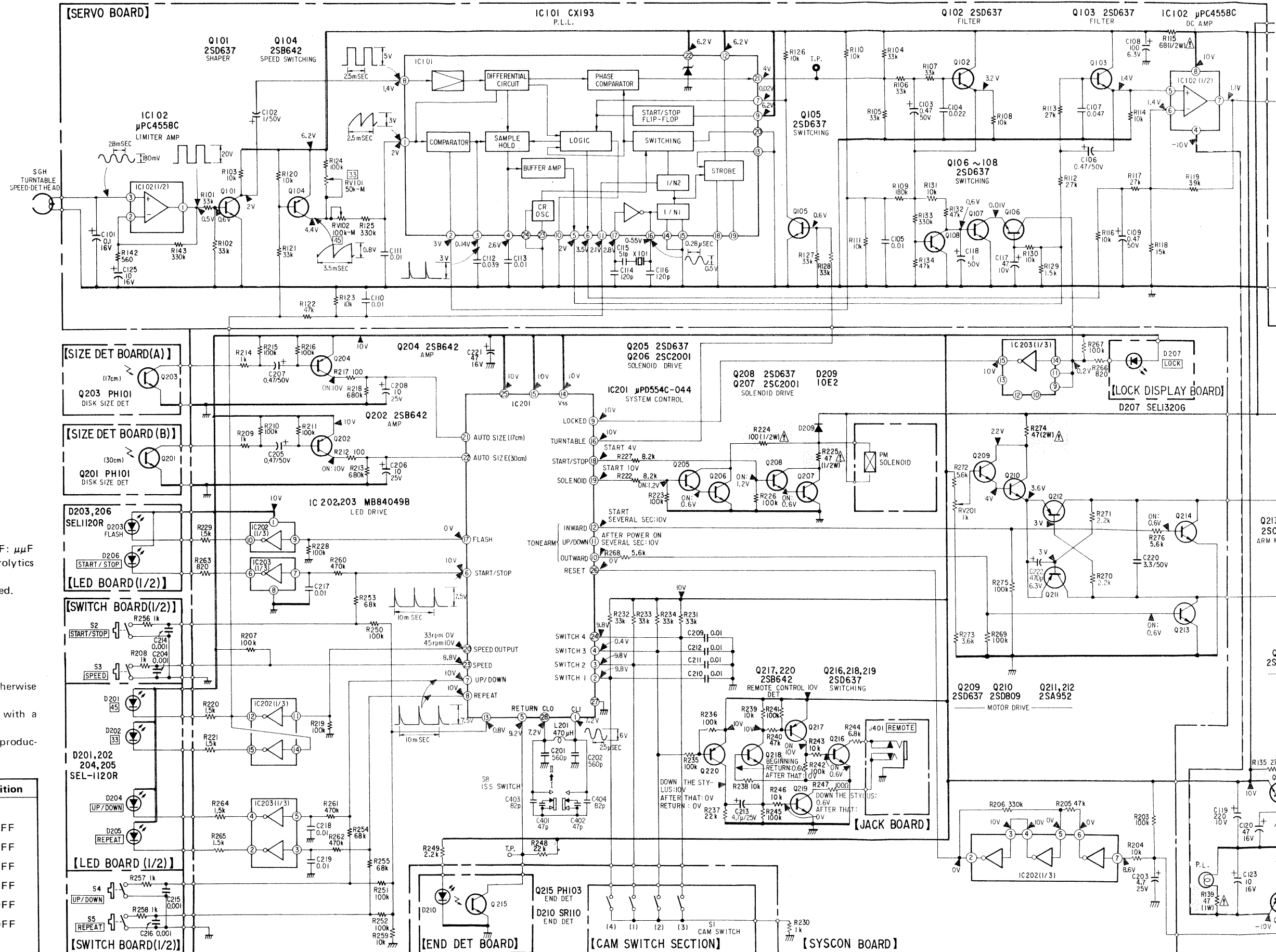
[RELAY BOARD]








[JACK BOARD]



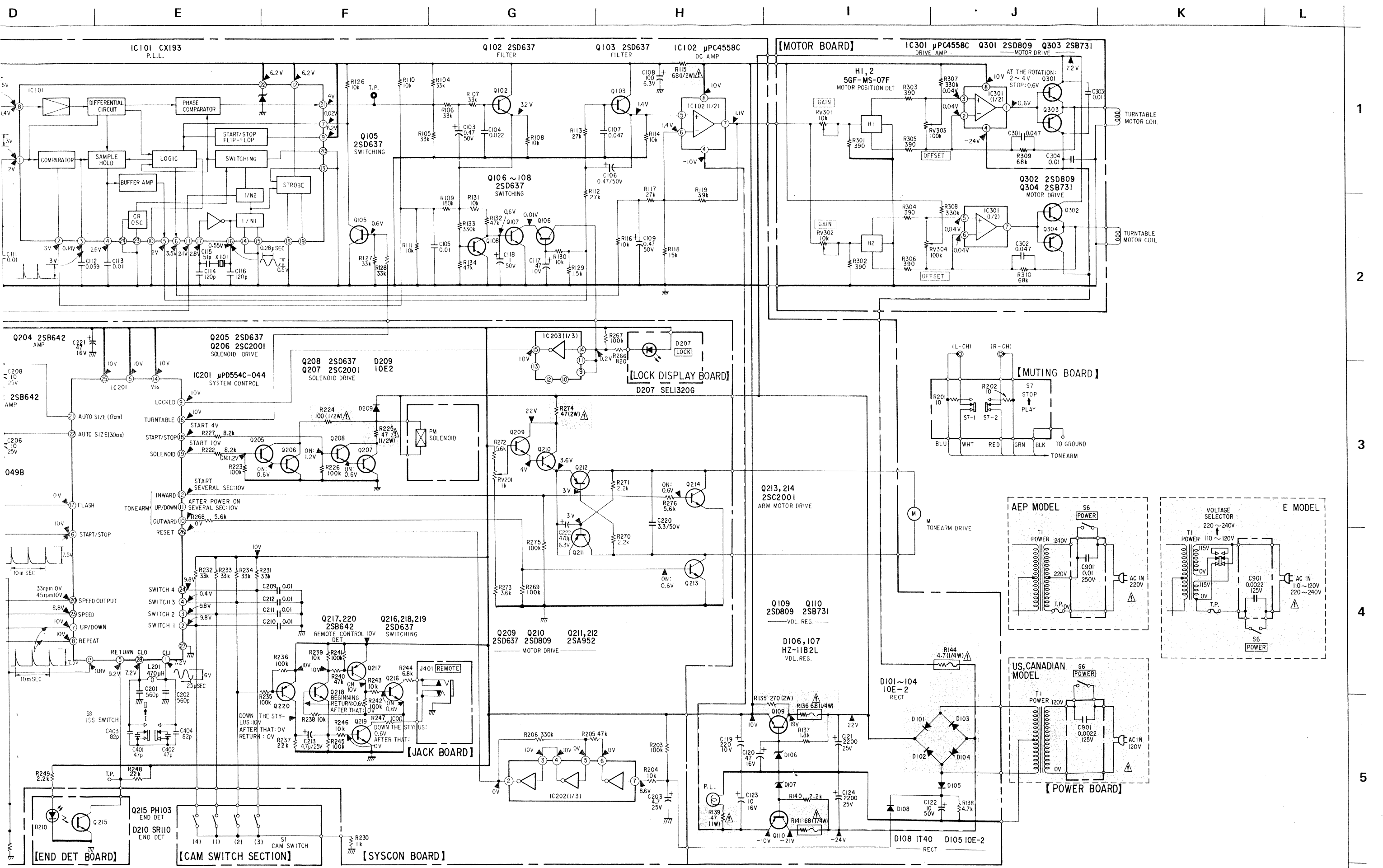
4-2. SCHEMATIC DIAGRAM



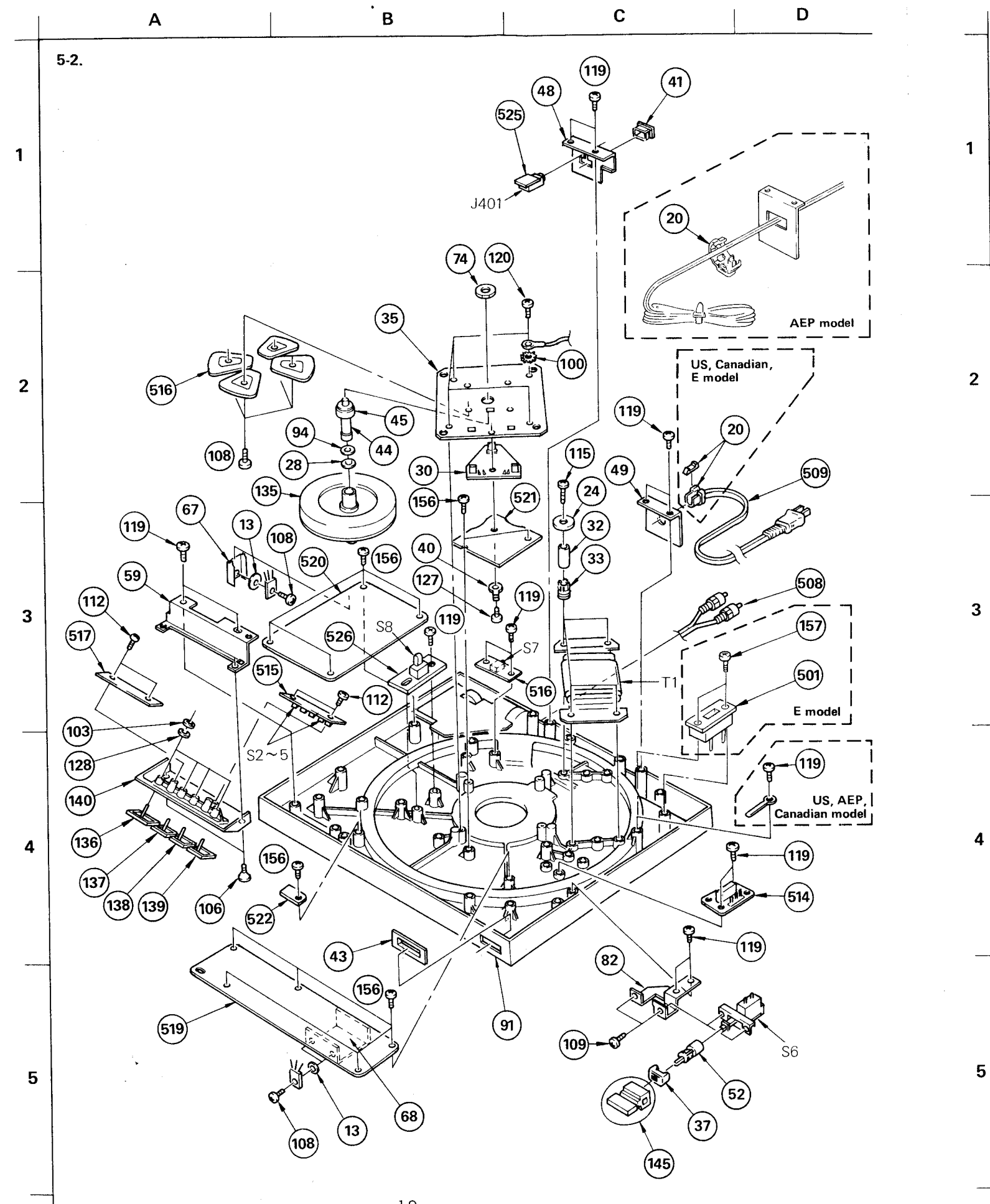
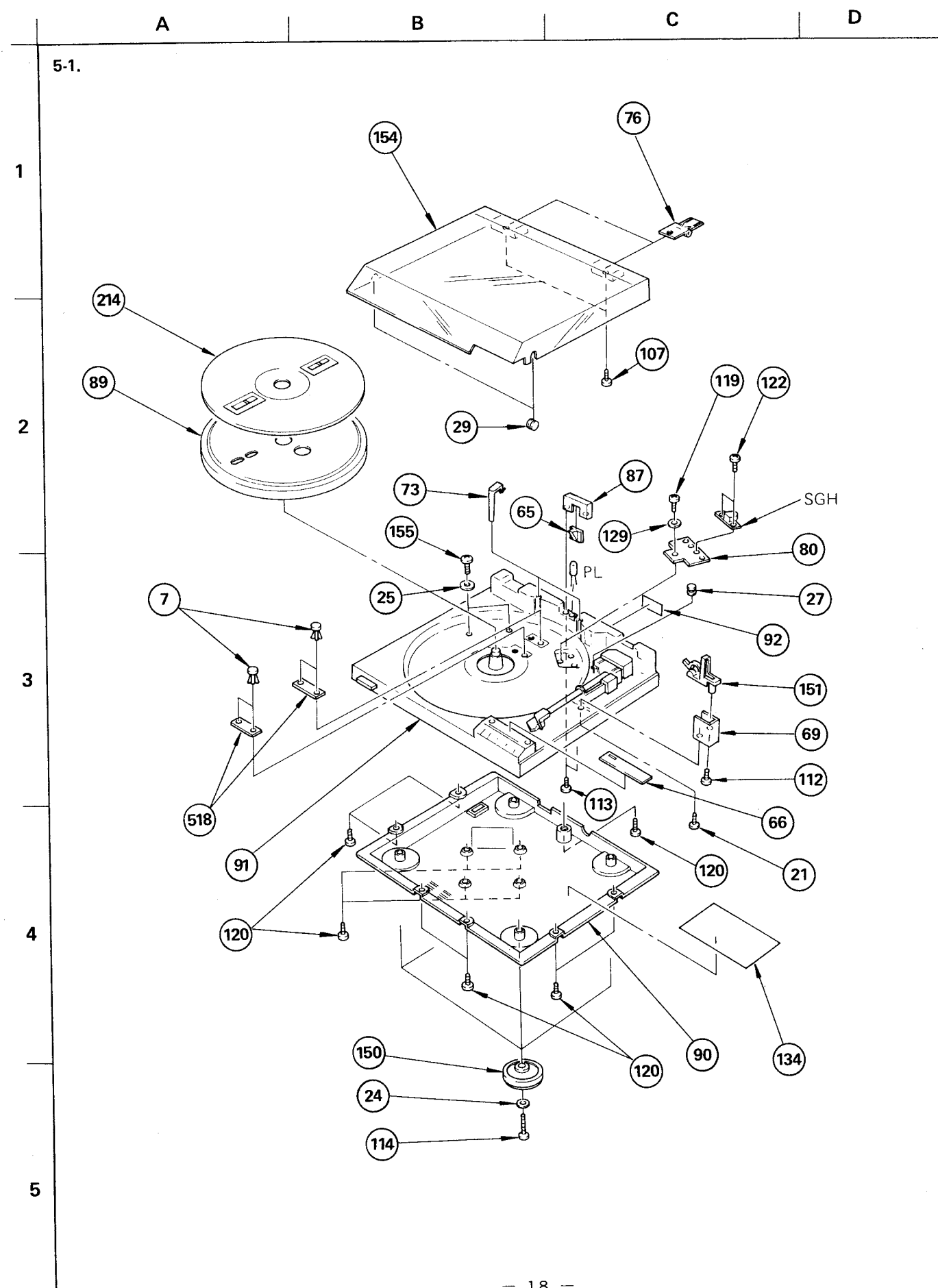
Note:

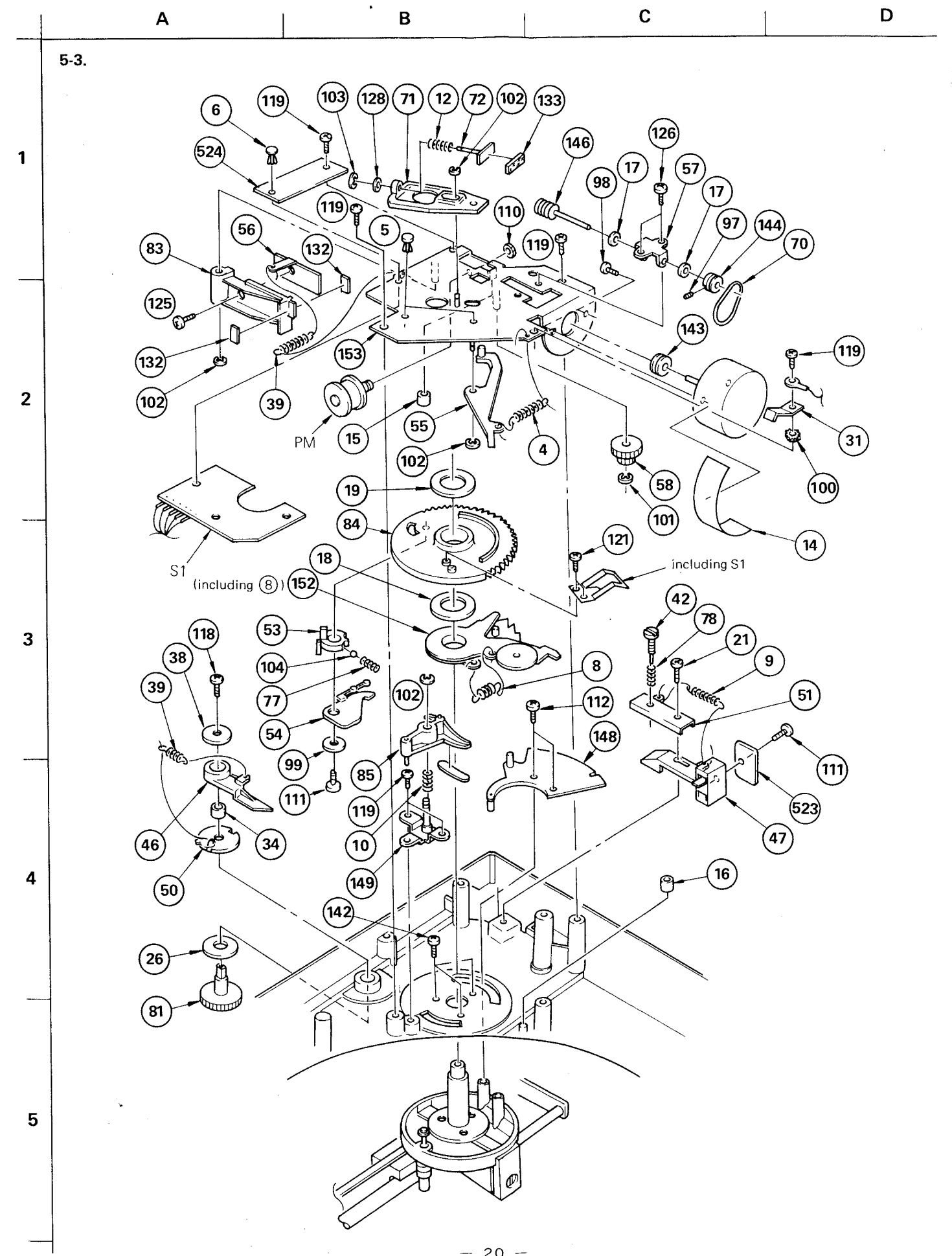
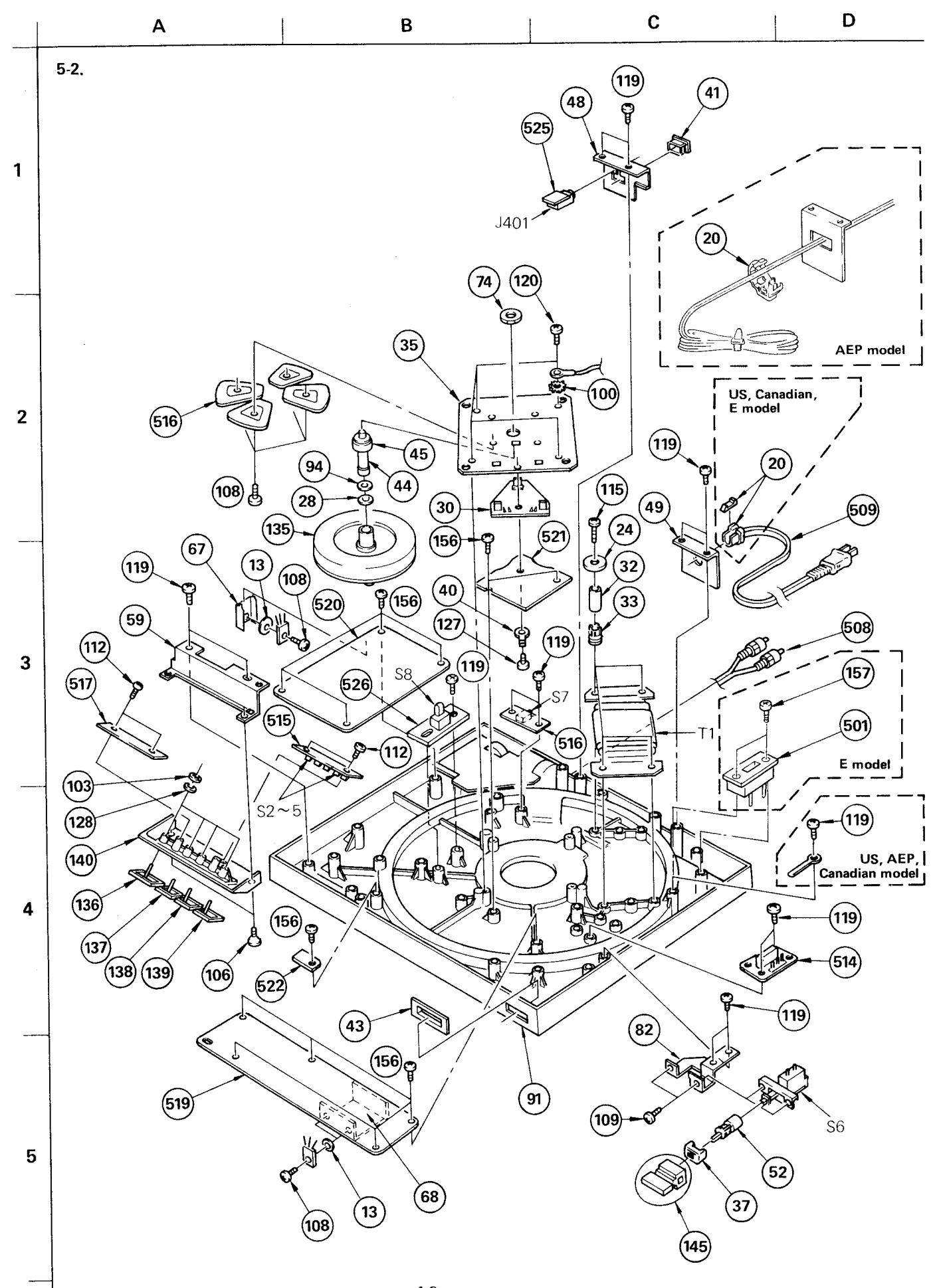
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted.
 $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
-  : fusible resistor.
-  : internal component.
-  : panel designation.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	CAM SW	
S2	START/STOP	OFF
S3	SPEED	OFF
S4	UP DOWN	OFF
S5	REPEAT	OFF
S6	POWER	OFF
S7	MUTING	OFF
S8	ISS	



SECTION 5 EXPLODED VIEWS AND PARTS LIST





5-5.

GENERAL SECTION

No.	Part No.	Description
1	
2	2-203-518-61	SCREW, PIVOT
3	2-203-519-00	NUT
4	3-140-263-XX	SPRING, TENSION
5	3-531-576-01	RIVET
6	3-531-576-21	RIVET
7	3-531-576-31	RIVET (DIA. 3), NYLON
8	3-539-227-00	SPRING, TENSION
9	3-555-026-00	SPRING, TENSION
10	3-555-122-00	SPRING, COMPRESSION
11	4-880-104-00	SPRING, COMPRESSION
12	3-568-315-00	SPRING, COMPRESSION
13	3-572-365-01	SHEET (A), INSULATING
14	3-575-442-00	PLATE, SHIELD, MOTOR
15	3-579-008-00	RUBBER (S1), BRAKE
16	3-579-008-00	RUBBER (S1), BRAKE
17	3-701-437-21	WASHER, 2
18	3-701-447-11	WASHER, 10
19	3-701-448-11	WASHER, 12
20	3-701-682-00	(US,Canadian,E)...STOPPER, CORD
20	3-703-244-00	(AEP).....BUSHING, CORD
21	3-703-137-00	SCREW, TAPPING
22	3-831-441-XX	SPACER, (20X3.5X0.5)
23	▲;3-703-043-21	(US,Canadian)...LABEL, CAUTION, MAIN
24	4-812-554-00	WASHER
25	4-827-486-00	WASHER, NYLON
26	4-844-041-11	WASHER, (N)
27	4-847-059-11	CAP, ADJUSTMENT HOLE
28	4-852-007-00	RETAINER (A), THRUST
29	4-857-601-11	CUSHION, DUST COVER
30	4-857-642-00	HOLDER, PC BOARD
31	4-857-664-00	SPRING (A)
32	4-858-513-00	SPACER
33	4-858-522-00	RUBBER, FLOATING
34	4-858-634-00	BUSHING
35	▲;4-858-708-00	FRAME, MOTOR
36	4-863-604-00	BEARING, PIVOT
37	4-864-307-00	RING
38	4-869-924-00	WASHER, GUIDE
39	4-869-987-00	SPRING, TENSION
40	4-870-539-00	PLATE, GROUND
41	4-873-331-00	HOLDER, JACK
42	▲;4-873-347-00	SHAFT, ADJUSTMENT, HIGH
43	4-875-501-00	GUIDE, POWER KNOB
44	▲;4-879-702-00	SHAFT, MOTOR

GENERAL SECTION

No.	Part No.	Description
45	▲;4-879-703-00	SPACER, SHAFT, MOTOR
46	▲;4-879-705-00	LEVER, IFC
47	▲;4-879-706-00	ADJUSTMENT BLOCK, END
48	▲;4-879-707-00	BRACKET, CORD, PH
49	▲;4-879-708-00	(UA,Canadian,E)...BRACKET, CORD
49	▲;4-879-759-00	(AEP).....BRACKET, CORD
50	▲;4-879-709-00	RETAINER, SPRING, IFC
51	▲;4-879-710-00	PLATE, ADJUSTMENT, END
52	4-879-711-00	SHAFT, JOINT
53	▲;4-879-717-00	RESET BLOCK
54	4-879-718-00	CLUTCH, LEAD-IN
55	▲;4-879-721-00	LEVER, SWITCH
56	▲;4-879-724-00	ACTUATOR, MAGNETIC
57	▲;4-879-725-00	SUPPORT, WORM
58	▲;4-879-727-00	GEAR
59	▲;4-879-728-00	BRACKET, CONTROL BLOCK
60	4-879-729-00	SCREW, ADJUSTMENT, HEIGHT
61	4-879-730-00	WEIGHT, STYLUS PRESSURE
62	▲;4-879-737-00	SHAFT, UP AND DOWN
63	▲;4-879-738-00	SHAFT, WEIGHT
64	4-879-740-00	PIPE, ARM
65	4-879-741-00	WINDOW, LAMP
66	4-879-742-00	COVER, GUARD
67	▲;4-879-744-00	HEAT SINK
68	▲;4-879-745-00	HEAT SINK
69	4-879-746-00	TABLE, REST
70	4-879-751-00	BELT
71	▲;4-879-752-00	SUPPORT, BRAKE
72	▲;4-879-753-00	FITTING BLOCK, SHOE
73	4-879-757-00	GUIDE, RECORD
74	▲;4-879-758-00	NUT, SHAFT, MOTOR
75	▲;4-879-760-00	BRIDGE, SHAFT, WEIGHT
76	4-879-761-00	HINGE
77	4-879-762-00	SPRING, COMPRESSION
78	4-879-763-00	SPRING, COMPRESSION
79	4-879-764-00	PAD, UP AND DOWN BLOCK
80	▲;4-879-765-00	BASE, HEAD
81	4-879-768-00	KNOB, IFC
82	▲;4-879-769-00	BRACKET, SWITCH
83	▲;4-879-770-00	CLAW, RATCHET
84	4-879-771-00	GEAR, DRIVING
85	▲;4-879-773-00	UP AND DOWN BLOCK
86	4-879-774-00	BRACKET, ARM
87	4-879-775-00	HOLDER, LAMP
88	4-879-777-00	ANGLE, SCALE

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ, for example:
UA....: μA...., UPA....: μPA...., UPC....: μPC,
UPD....: μPD....

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-6.

GENERAL SECTION

No.	Part No.	Description
89	4-879-782-00	TURNTABLE
90	4-879-785-00	PLATE, BOTTOM
91	4-879-786-00	FRAME
92	4-879-788-00	(AEP).....LABEL, MODE NUMBER
92	4-880-103-00	(E).....LABEL, MODE NUMBER
92	4-880-106-00	(US,Canadian)....LABEL, MODE NUMBER
93	4-879-789-01	(US,Canadian,E)...SPACER, GUIDE
94	4-879-790-00	WASHER, WAVED
95	7-621-591-00	SCREW +K 2X4
96	7-621-712-17	SET-SCREW,SLOT 2.6X2 CUP POINT
97	7-621-723-07	SET-SCREW,SLOT 2X4 CUP POINT
98	7-621-775-10	SCREW +B 2.6X4
99	7-623-105-12	W 2,MIDDLE
100	7-623-423-07	LW 4, TYPE B
101	7-624-102-04	STOP RING 1.5, TYPE -E
102	7-624-104-04	STOP RING 2.0, TYPE -E
103	7-624-190-81	STOP RING 2, TYPE-CS
104	7-671-113-01	STEAL, BALL 3
105	7-671-151-01	STAINLESS, BALL 1/16INCH
106	7-682-246-09	SCREW +K 3X5
107	7-682-545-04	SCREW +B 3X4
108	7-682-547-09	SCREW +B 3X6
109	7-682-947-01	SCREW +PSW 3X6
110	7-684-023-04	N 3, TYPE 2
111	7-685-103-21	SCREW +P 2X5 TYPE2 SLIT
112	7-685-134-21	SCREW +P 2.6X8 TYPE2 SLIT
113	7-685-138-21	SCREW +P 2.6X16 TYPE2 SLIT
114	7-685-152-21	SCREW +P 3X25 TYPE2 SLIT
115	7-685-196-21	SCREW +P 3X18 TYPE2 SLIT
116	7-685-134-24	SCREW +P 2.6X8 TYPE2 SLIT
117	7-685-534-29	SCREW +BTP 2.6X8 TYPE2 N-S
118	7-685-645-71	SCREW +BVTP 3X6 TYPE2 SLIT
119	7-685-647-71	SCREW +BVTP 3X10 TYPE2 SLIT
120	7-685-648-21	SCREW +BVTP 3X12 TYPE2 SLIT
121	7-685-772-04	SCREW +PTT 1.7X2, TYPE1
122	7-685-781-01	SCREW +PTT 2X4 (S)

GENERAL SECTION

No.	Part No.	Description
123	7-685-783-01	SCREW +PTT 2X6 (S)
124	7-685-784-01	SCREW +PTT 2X8 (S)
125	7-685-860-01	SCREW +BVTT 2.6X4 (S)
126	7-685-870-01	SCREW +BVTT 3X5 (S)
127	7-685-872-01	SCREW +BVTT 3X8 (S)
128	7-688-001-01	W 2, SMALL
129	7-688-003-11	W 3, MIDDLE
130	7-688-003-11	W 3, MIDDLE
131	9-911-837-XX	CUSHION, FILTER
132	9-911-848-XX	SHOE, BRAKE
133	9-911-850-XX	FELT, BACK TENSION
134	9-911-863-XX	PAPER, SHIELD
135	A-4608-206-A	ROTOR (1) ASSY
136	A-4611-080-A	BUTTON (A) ASSY, SWITCH
137	A-4611-081-A	BUTTON (B) ASSY, SWITCH
138	A-4611-082-A	BUTTON (C-1) ASSY, SWITCH
139	A-4611-083-A	BUTTON (C-2) ASSY, SWITCH
140	A-4611-084-A	BOX ASSY, CONTROL
141	X-4879-711-0	ARM, ROTARY
142	7-621-772-20	SCREW +B 2X5
143	X-3570-020-6	PULLEY, MOTOR (2400
144	X-3570-020-8	PULLEY, MOTOR
145	X-4875-501-0	KNOB ASSY, POWER
146	X-4879-702-0	SHAFT ASSY, WORM
147	X-4879-703-0	STAY ASSY, JOINT
148	X-4879-704-0	SHUTTER ASSY
149	X-4879-705-0	BRACKET ASSY, UP AND DOWN BLOCK
150	X-4879-706-0	INSULATOR ASSY
151	X-4879-707-0	REST SUB ASSY, ARM
152	X-4879-708-0	PLATE ASSY, LEAD-IN
153	X-4879-709-0	PLATE ASSY, FIXED, MECHANICAL
154	X-4879-710-0	COVER ASSY, DUST
155	4-808-459-31	SCREW (B), MOTOR LOCK
156	7-685-646-29	SCREW +BVTP 3X8 TYPE2 SLIT
157	7-685-647-21	(E)....SCREW +BV 3X10

NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ, for example:
 UA....: μA...., UPA....: μPA...., UPC....: μPC,
 UPD....: μPD....

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μH

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-7. ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
221	1-549-105-00	(US,Canadian)..CARTRIDGE COMPLETE ASSY
222	X-4869-912-0	(US,Canadian)...SHELL ASSY, HEAD
222	X-4874-226-2	(E).....SHELL ASSY, HEAD
223	2-056-532-00	(US,Canadian,E)...SCREW
234	2-229-507-00	WASHER
225	A-4505-068-A	(AEP,E)...CARTRIDGE COMPLITE ASSY
226	4-815-655-01	(US,Canadian,E)...NUT
227	1-555-463-00	(US,Canadian,E)...CONNECTOR, WITH LEAD
▲	1-526-565-00	(E)...AC PLUG ADAPTOR
	3-701-613-00	BAG, POLYETHYLENE (FOR GUIDE & SPACER)
	3-701-616-00	BAG, POLYETHYLENE (FOR CARTRIDGE etc..)
	3-701-630-00	BAG, POLYETHYLENE (FOR SHEET)
	3-701-634-00	BAG, POLYETHYLENE (FOR TURNTABLE)
	3-701-806-00	ADAPTOR, 45, (E)
	3-703-514-00	(E).....LABEL, SELECTION, VOLTAGE
	3-783-744-21	(US,Canadian)...MANUAL, INSTRUCTION
	3-783-744-11	(E).....MANUAL, INSTRUCTION
	3-795-153-51	(E).....INSTRUCTION, HEAD, SHELL
	4-862-043-11	CUSHION, ARM
	4-862-680-00	(US,Canadian,E)...PROTECTOR
	4-869-962-00	ADJUSTOR, DP
	4-870-529-01	(E)...CASE, SHELL
	4-879-618-00	PLATE, PROTECTION
	4-879-732-00	SCREW, WEIGHT
	4-879-756-00	GUIDE, SLIDE
	4-879-776-00	WEIGHT
	4-879-781-00	SHEET, TURNTABLE
	4-879-791-00	INDIVIDUAL CARTON
	4-879-792-00	CUSHION (RIGHT)
	4-879-793-00	CUSHION (LEFT)
	4-879-794-00	CUSHION, TURNTABLE
	4-879-796-00	HOLDER, TURNTABLE
	4-879-798-00	SHEET, PROTECTION
	4-879-799-00	PLATE (A), PROTECTION
	4-880-101-00	PLATE (B), PROTECTION
	4-880-102-00	PLATE (C), PROTECTION
	X-4869-915-1	(E)...SCREW ASSY, FITTING

NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ, for example:
 UA...: μA..., UPA...: μPA..., UPC...: μPC,
 UPD...: μPD...

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	▲ 1-552-535-00	(E)...SWITCH, POWER & VOLTAGE SELECT
502	1-462-161-00	COIL, MOTOR
503	▲;1-508-799-00	BASE POST (U TYPE)
504	▲;1-508-803-13	U TYPE BASE POST
505	▲;1-508-880-00	BASE POST
506	▲;1-535-115-00	TERMINAL
507	▲;1-535-118-00	(US,Canadian,E)...TERMINAL
507	▲;1-535-119-00	(AEP).....TERMINAL
508	1-551-294-00	CORD, SHIELD (WITH PIN)
509	▲.1-534-986-XX	(US,Canadian)...CORD, POWER
509	▲.1-534-817-XX	(AEP).....CORD, POWER, EURO PLUG
509	▲.1-551-472-00	(E).....CORD, POWER
510	▲;1-560-061-00	PIN, CONNECTOR 3P
511	▲;1-560-062-00	PIN, CONNECTOR 4P
512	▲;1-560-063-00	PIN, CONNECTOR 5P
513	1-561-551-00	CONNECTOR, NECK CYLINDER (M)
514	▲;1-606-237-00	PC BOARD, POWER
515	▲;1-606-238-00	PC BOARD, SWITCH
516	▲;1-606-239-00	PC BOARD, MUTING
517	▲;1-606-240-00	PC BOARD, LED INDICATION
518	▲;1-606-241-00	PC BOARD, SIZE DET
519	A-4619-178-A	MOUNTED PCB, SERVO
520	A-4646-086-A	MOUNTED PCB, SYSCON
521	▲;1-606-244-00	PC BOARD, MOTOR DRIVE
522	▲;1-606-245-00	PC BOARD, LOCK INDICATOR
523	▲;1-606-246-00	PC BOARD, END DETECTION
524	▲;1-606-247-00	PC BOARD, RELAY
525	▲;1-606-248-00	PC BOARD, JACK
526	▲;1-606-594-00	PC BOARD, ISS
C115	1-102-491-00	CERAMIC 51PF 5% 50V
C121	▲.1-123-338-11	ELECT 2200MF 20% 25V
C124	▲.1-123-338-11	ELECT 2200MF 20% 25V
C204	1-161-323-00	CERAMIC 0.001MF 10% 50V
C214	1-161-323-00	CERAMIC 0.001MF 10% 50V
C215	1-161-323-00	CERAMIC 0.001MF 10% 50V
C216	1-161-323-00	CERAMIC 0.001MF 10% 50V
C220	1-123-231-00	ELECT 3.3MF 20% 50V
C901	▲.1-161-747-00	(US,Canadian,E).....CERAMIC 0.0022MF 20 125V
C901	▲.1-130-455-00	(AEP).....FILM 0.01MF 20 250V
D101	▲.8-719-200-02	DIODE 10E-2
D102	▲.8-719-200-02	DIODE 10E-2
D103	▲.8-719-200-02	DIODE 10E-2
D104	▲.8-719-200-02	DIODE 10E-2
D105	8-719-200-02	DIODE 10E-2
D106	8-719-910-15	DIODE HZ11B2L

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ELECTRICAL PARTS

Ref.No.	Part No.	Description
D107	8-719-910-15	DIODE HZ11B2L
D108	8-719-815-55	DIODE 1S1555
D201	8-719-311-20	DIODE SEL1120R
D202	8-719-311-20	DIODE SEL1120R
D203	8-719-311-20	DIODE SEL1120R
D204	8-719-311-20	DIODE SEL1120R
D205	8-719-311-20	DIODE SEL1120R
D206	8-719-133-31	DIODE SEL1331G
D207	8-719-133-20	DIODE SEL1320G
D209	8-719-200-02	DIODE 10E-2
D210	8-719-101-11	DIODE SR110
H1	8-719-903-00	DIODE HL-300C
H2	8-719-903-00	DIODE HL-300C
IC101	8-751-930-00	IC CX-193
IC102	8-759-145-58	IC UPC4558C
IC201	8-759-154-44	IC UPD554C-044
IC202	8-759-140-49	IC MPD4049C
IC203	8-759-140-49	IC MPD4049C
IC301	8-759-145-58	IC UPC4558C
J401	1-507-688-21	JACK (STEREO PLUG)
L201	1-408-096-00	MICRO INDUCTOR 470UH
M	1-541-163-00	MOTOR
PL	1-518-343-81	LAMP, PILOT
PM	1-454-297-00	SOLENOID, PLUNGER
Q101	8-729-463-73	TRANSISTOR 2SD637
Q102	8-729-463-73	TRANSISTOR 2SD637
Q103	8-729-463-73	TRANSISTOR 2SD637
Q104	8-729-993-72	TRANSISTOR 2SA937
Q105	8-729-463-73	TRANSISTOR 2SD637
Q106	8-729-463-73	TRANSISTOR 2SD637
Q107	8-729-463-73	TRANSISTOR 2SD637
Q108	8-729-463-73	TRANSISTOR 2SD637
Q109	8-729-180-93	TRANSISTOR 2SD809
Q110	8-729-173-13	TRANSISTOR 2SB731
Q201	8-729-101-01	TRANSISTOR PH101
Q202	8-729-993-72	TRANSISTOR 2SA937
Q203	8-729-101-01	TRANSISTOR PH101
Q204	8-729-993-72	TRANSISTOR 2SA937
Q205	8-729-463-73	TRANSISTOR 2SD637
Q206	8-729-100-13	TRANSISTOR 2SC2001
Q207	8-729-100-13	TRANSISTOR 2SC2001
Q208	8-729-463-73	TRANSISTOR 2SD637

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q209	8-729-463-73	TRANSISTOR 2SD637
Q210	8-729-180-93	TRANSISTOR 2SD809
Q211	8-729-195-23	TRANSISTOR 2SA952
Q212	8-729-195-23	TRANSISTOR 2SA952
Q213	8-729-100-13	TRANSISTOR 2SC2001
Q214	8-729-100-13	TRANSISTOR 2SC2001
Q215	8-729-101-13	TRANSISTOR PH103
Q216	8-729-463-73	TRANSISTOR 2SD637
Q217	8-729-993-72	TRANSISTOR 2SA937
Q218	8-729-463-73	TRANSISTOR 2SD637
Q219	8-729-463-73	TRANSISTOR 2SD637
Q220	8-729-993-72	TRANSISTOR 2SA937
Q301	8-729-141-43	TRANSISTOR 2SD414
Q302	8-729-141-43	TRANSISTOR 2SD414
Q303	8-729-154-83	TRANSISTOR 2SB548
Q304	8-729-154-83	TRANSISTOR 2SB548
R115	△.1-247-212-00	CARBON 68 5% 1/2W F
R135	△.1-206-650-00	METAL 270 5% 2W F
R136	△.1-212-853-00	FUSIBLE 6.8 5% 1/4W F
R139	△.1-213-127-00	METAL 47 5% 1W F
R141	△.1-217-397-00	FUSIBLE 68 5% 1/4W F
R144	△.1-212-849-00	FUSIBLE 4.7 5% 1/4W F
R224	△.1-247-216-00	CARBON 100 5% 1/2W F
R225	△.1-247-208-00	CARBON 47 5% 1/2W F
R274	△.1-206-479-00	METAL 47 5% 2W F
RV101	1-224-661-00	RES, ADJ, METAL GLAZE 50K
RV102	1-226-938-00	RES, ADJ, METAL GLAZE 100K
RV201	1-226-233-00	RES, ADJ, CARBON 1K
RV301	1-226-236-00	RES, ADJ, CARBON 10K
RV302	1-226-236-00	RES, ADJ, CARBON 10K
RV303	1-226-239-00	RES, ADJ, CARBON 100K
RV304	1-226-239-00	RES, ADJ, CARBON 100K
S1	1-553-913-00	SWITCH
S2	1-553-739-00	SWITCH, KEY BOARD
S3	1-553-739-00	SWITCH, KEY BOARD
S4	1-553-739-00	SWITCH, KEY BOARD
S5	1-553-739-00	SWITCH, KEY BOARD
S6	△.1-553-352-00	(US,Canadian)...SWITCH, PUSH (POWER)
S6	△.1-553-318-00	(AEP,E).....SWITCH, PUSH (POWER)
S7	1-553-916-00	SWITCH, PUSH
S401	1-516-576-00	SLIDE SWITCH
SGH	1-543-093-00	HEAD
T1	△.1-447-150-00	(AEP).....TRANSFORMER, POWER
T1	△.1-447-193-00	(E).....TRANSFORMER, POWER
T1	△.1-447-232-00	(US,Canadian)...TRANSFORMER, POWER
X101	1-527-380-21	OSCILLATOR, CRYSTAL

NOTE:

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ , for example:
UA....: μ A...., UPA....: μ PA...., UPC....: μ PC, UPD....: μ PD....

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MYLAR CAPACITORS

RATING											
CAP. (μ F)	50 VOLT.			CAP. (μ F)	100 VOLT.			CAP. (μ F)	200 VOLT.		
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00	—	—	—	—
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00	—	—	—	—
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00	—	—	—	—



TANTALUM CAPACITORS

RATING								→ : Use the high voltage rated one.	
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.		
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	
0.01					→	→	1-131-396-00		
0.015						→	1-131-397-00		
0.022						→	1-131-398-00		
0.033						→	1-131-399-00		
0.047						→	1-131-400-00		
0.068					→	→	1-131-401-00		
0.1					→	→	1-131-402-00		
0.15					→	→	1-131-403-00		
0.22					→	→	1-131-404-00		
0.33					→	1-131-409-00	1-131-405-00		
0.47	—	—	—	—	1-131-412-00	→	1-131-406-00		
0.68	—	—	—	1-131-415-00	→	1-131-410-00	1-131-407-00		
1.0	—	—	1-131-418-00	—	1-131-413-00	→	1-131-408-00		
1.5	—	1-131-421-00	—	1-131-416-00	→	1-131-411-00	1-131-348-00		
2.2	1-131-424-00	—	1-131-419-00	—	1-131-414-00	1-131-355-00	1-131-349-00		
3.3	—	1-131-422-00	—	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00		
4.7	1-131-425-00	—	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00		
6.8	—	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00		
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00		
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	—		
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00				
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00					
47	1-131-393-00	1-131-387-00	1-131-381-00	—					
68	1-131-394-00	1-131-388-00	—	—					
100	1-131-395-00	—	—	—					

TANTALUM CAPACITORS

RATING						
CAP. (μ F)	3 VOLT.		6.3 VOLT.		10 VOLT.	
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033	—	—	—	—	—	—
0.047	—	—	—	—	—	—
0.068	—	—	—	—	—	—
0.1	—	—	—	—	—	—
0.15	—	—	—	—	—	—
0.22	—	—	—	—	—	—
0.33	—	—	—	—	—	—
0.47	—	—	—	—	—	—
0.68	—	—	—	—	—	—
1.0	—	—	—	—	—	—
1.5	—	—	—	—	—	—
2.2	—	—	—	—	—	—
3.3	—	—	—	—	—	—
4.7	—	—	—	—	—	—
6.8	—	—	—	—	—	—
10	—	—	—	—	—	—
15	—	—	—	—	—	—
22	—	—	—	—	—	—
33	—	—	—	—	—	—
47	—	—	—	—	—	—
100	—	—	—	—	—	—

ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → : Use the high voltage rated one.					
	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.	50 VOLT. PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	—	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	—
3300	1-121-661-00	1-123-075-00	1-123-071-00	—	—	—

CAP. (μF)	100 VOLT. PART No.	160 VOLT. PART No.	250 VOLT. PART No.	350 VOLT. PART No.
	PART No.	PART No.	PART No.	PART No.
0.47	—	—	—	—
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	—	1-123-028-00
3.3	1-121-995-00	—	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	—	—
47	1-123-251-00	1-121-919-00	—	—
100	1-123-084-00	—	—	—

CERAMIC CAPACITORS

CAP. (pF)	RATING					
	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (pF)	50 VOLT. PART No.	CAP. (μF)
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00	
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00	
16	1-102-952-00	110	1-102-815-00			
18	1-102-953-00	120	1-102-816-00			
20	1-102-958-00	130	1-101-081-00			

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

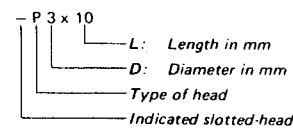
CAP. (μF)	RATING → : Use the high voltage rated one.				
	25 VOLT. PART No.	50 VOLT. PART No.	CAP. (μF)	25 VOLT. PART No.	50 VOLT. PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

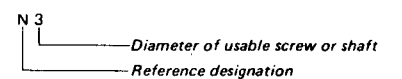
HARDWARE NOMENCLATURE

Screw:



Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation

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